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Identification Information:
 Citation:
   Citation Information:
     Originator: U.S. Geological Survey
     Publication Date: 20040801
     Title: Poktovik Creek and Sisiak Creek Fires of Noatak National Preserve - 2004
     Geospatial_Data_Presentation_Form:
       Raster digital data.
       Vector data are also available as ArcView Shape Files.
     Publication Information:
       Publication_Place: Sioux Falls, South Dakota USA
       Publisher: U.S. Geological Survey
     Online_Linkage: http://edc.usgs.gov
 Description:
   Abstract:
     The U.S. Geological Survey (USGS) has entered into a cooperative
     agreement with the National Park Service (NPS) to deliver satellite
     imagery and derivitive products centered on major fires that
     impact national parks and other federal lands. This data set was
     compiled at the request of a federal land management agency and is
     part of a suite of products generated for a specific fire.
     See the National Burn Severity Mapping web site at:
     http://edc2.usgs.gov/fsp/severity/fire_main.asp
   Purpose:
     The purpose of this project is to develop a robust mapping
     methodology and consistent data products that allow federal land
     managers and fire ecologists to evaluate and compare burn severity
     within individual fires and between fires across various
     ecosystems. These products will help land managers to more
     effectively plan, implement and monitor fire recovery activities.
   Supplemental_Information:
     Fire Names: Poktovik Creek and Sisiak Creek
     Agency: National Park Service
     Land Management Unit: Noatak National Preserve
     Date of Fire: Poktovik Creek: 6/11/2004
                   Sisiak Creek: 6/14/2004
     Type of assessment: Extended Assessment
     Acres within Fire Perimeter: Poktovik Creek: 300
                                   Sissiak Creek: 310
     Landsat Path and Row: 80/12
     Pre-Fire Landsat Date/Scene ID:
     Landsat 7; July 27, 2002 / LE7080012000220850
     Post-Fire Landsat Date/Scene ID:
     Landsat 7; July 3, 2005 / LE7080012000518450
     Output Dataset Projection: Alaska Albers
     Spheroid Name: GRS80
     Datum Name: NAD83
     Latitude of first standard parallel: 55 00 00 N
     Latitude of second standard parallel: 65 00 00 N
     Lonitude of central meridian: 154 00 00 W
     Latitiude of origin of projection: 50 00 00 N
     Image subset Corner Coordinate (center of upper left pixel, projection meters)
     ULX: -335790
                     LRX: -253770
     ULY: 2040450 LRY: 1983510
     Image subset size:
     #Rows: 1899
     #Columns: 2735
     Pixel size: 30 meters
     Bounding Box:
     North Lat: 68 10 53 N
     South Lat: 67 40 14 N
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East Long: 160 01 10 W
    West Long: 161 56 56 W
    Latitude and Longitude within Fire Perimeter:
                      Latitude
                                  Longitude
    Poktovik Creek:
                      68 00 54 N 161 14 08 W
    Sisiak Creek:
                     67 54 49 N 160 36 25 W
    Fire Perimeter: Perimeters were manually digitized from Landsat Imagery
    For further information on NLAPS and Landsat TM data, please refer to the metadata
    documentation found on the USGS Clearinghouse website at:
    http://www.fgdc.gov/clearinghouse/clearinghouse.html
    Product List:
    posi04b pretm.tif
    Pre-Fire Landsat data subset (bands 1-5,7 Geo-TIFF format)
    posi04b_postm.tif
    Post-Fire Landsat data subset (bands 1-5,7 Geo-TIFF format)
    posi04b dnbr
    Differenced Normalized Burn Ratio (DNBR) subset (ArcInfo GRID)
    posi04b_pi
    Fire Perimeter (shape file)
    posi04b_hist.xls
    DNBR pixel count within the fire perimeter (excel file)
    d801207020705
    Full Scene DNBR (ArcInfo GRID)
Time Period of Content:
  Time_Period_Information:
    Multiple_Dates/Times:
      Single_Date/Time:
        Calendar_Date: 20020727 (pre-fire image)
      Single Date/Time:
        Calendar_Date: 20040611 (date Poktovik Creek fire began)
      Single Date/Time:
        Calendar_Date: 20040614 (date Sisiak Creek fire began)
      Single Date/Time:
        Calendar Date: 20050703 (post-fire image)
  Currentness_Reference: ground condition
Status:
  Progress: Complete
  Maintenance_and_Update_Frequency: as needed
Spatial_Domain:
  Bounding Coordinates:
    West_Bounding_Coordinate: -161.56.56
    East Bounding Coordinate: -160.01.10
    North_Bounding_Coordinate: 68.10.53
    South_Bounding_Coordinate: 67.40.14
Keywords:
  Theme:
    Theme_Keyword_Thesaurus: none
    Theme_Keyword: burn mapping
    Theme_Keyword: imagery
    Theme_Keyword: fire
    Theme_Keyword: Landsat
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Theme Keyword: National Park Service
   Place:
      Place Keyword Thesaurus: none
      Place Keyword: Noatak National Preserve
      Place Keyword: Poktovik Creek
      Place Keyword: Sisiak Creek
      Place_Keyword: Alaska
  Access_Constraints: FTP data sets are available to any user.
  Use_Constraints: There are no restrictions on use, except for reasonable and proper
acknowledgement of information sources.
  Point_of_Contact:
    Contact Information:
      +001 605-594-6151 or (USA) 800-252-4547
      Contact_Organization_Primary:
        Contact Organization: U.S. Geological Survey
      Contact Position: CSR
      Contact_Voice_Telephone: +001 605-594-6151
      Contact_Address:
        Address_Type: physical and mailing address
        Address: 47914 252nd Street
       City: Sioux Falls
       State_or_Province: SD
        Postal Code: 57198-0001
        Country: USA
      Contact TDD/TTY Telephone: +001 605-594-6933
      Contact Voice Telephone: +001 605-594-6151
      Contact Facsimile Telephone: +001 605-594-6589
      Contact_Electronic_Mail_Address: fsedc@usgs.gov
      Hours_of_Service: 0800 - 1600 CT, M-F, -6 h GMT
      Contact_Instructions: http://edc2.usgs.gov/fsp/severity/contact_us.asp
  Data_Set_Credit: USGS and NASA
 Native_Data_Set_Environment: Oracle, ERDAS Imagine, & ArcInfo
Data_Quality_Information:
  Attribute_Accuracy:
   Attribute_Accuracy_Report:
      Three on-board calibrators (two solar, one internal) provide an absolute
      accuracy of 5 percent, excluding band 6.
 Logical_Consistency_Report:
   These Landsat data are collected from a nominal altitude of 705 kilometers
    in a near-polar, near-circular, sun-synchronous orbit at an inclination of
    98.2 degrees, imaging the same 183-km swath of Earth's surface every 16 days.
    The pixels representing the bands for the image are in the data set only once.
  Completeness_Report: Fire perimeter was automated, (seed value 425, distance 325) with manual
edits.
 Positional Accuracy:
   Horizontal_Positional_Accuracy:
      Horizontal_Positional_Accuracy_Report:
        Energy reflected from Earth's surface passes through a whisk-broom scanning
        system and all-reflective optics before being collected by the solid-state
        detectors at the focal plane.
  Lineage:
   Process_Step:
      Process_Description:
        These data products are derived from Landsat Thematic Mapper data.
        A pre-fire scene and a post-fire scene are analyzed to create a
        Differenced Normalized Burn Ratio (DNBR) image. The DNBR image portrays
        the variations of burn severity within the fire.
        The Landsat images are terrain corrected and geometrically rectified
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to an Albers Conical Equal Area map projection using the National
        Landsat Archive Production System (NLAPS). The images are further
        processed to convert bands 1-5 and 7 to at-satellite-reflectance.
        The Normalized Burn Ratio (NBR) is computed for each date of imagery
        using the following formula:
        (Band 4 - Band 7) / (Band 4 + Band 7) = NBR
        The differenced NBR is computed by subtracting the post-fire NBR from
        the pre-fire NBR:
        PreNBR - PostNBR = DNBR
        Higher DNBR values are correlated with more severe burns. The DNBR
        image is evaluated to determine the threshold value between burned and
        unburned areas. The perimeter of the fire is delineated using the DNBR
        image. The DNBR image, the pre-fire and post-fire TM images, and a
        fire perimeter vector file are provided in digital format in the map
        projection used by the National Park Service.
      Source_Used_Citation_Abbreviation: TM
      Process_Date: 20050801
      Source Produced Citation Abbreviation: DNBR
  Cloud Cover: 10
Distribution Information:
  Distributor:
    Contact Information:
      Contact Organization Primary:
        Contact_Organization: U.S. Geological Survey
      Contact_Position:
        Principal Scientist
        Land Cover Applications
      Contact Address:
        Address Type: mailing and physical address
        Address:
          47914 252nd Street
         National Center EROS
        City: Sioux Falls
        State_or_Province: SD
        Postal_Code: 57198-0001
        Country: USA
      Contact_Voice_Telephone: +001 605-594-6151
      Contact_TDD/TTY_Telephone: +001 605 594-6933
      Contact_Facsimile_Telephone: +001 605 594-6589
      Contact_Electronic_Mail_Address: fsedc@usgs.gov
      Hours_of_Service: 0800 - 1600 CT, M-F, -6 h GMT
      Contact_Instructions: http://edc2.usgs.gov/fsp/severity/contact_us.asp
  Distribution_Liability:
   No warranty expressed or implied is made by the USGS regarding the use
    of the data, nor does the act of distribution constitute any such warranty.
  Standard Order Process:
   Digital_Form:
      Digital Transfer Information:
        Format_Name: Geo-TIFF
        Format_Version_Number: 1
      Digital Transfer Option:
        Online_Option:
          Computer_Contact_Information:
            Network_Address:
              Network_Resource_Name: http://edc2.usgs.gov/fsp/severity/download_data.asp
   Digital Form:
      Digital Transfer Information:
        Format_Name: DNBR ArcInfo GRID
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Format_Version_Number: 1
      Digital_Transfer_Option:
        Online_Option:
          Computer_Contact_Information:
            Network_Address:
              Network_Resource_Name: http://edc2.usgs.gov/fsp/severity/download_data.asp
   Digital_Form:
      Digital_Transfer_Information:
        Format_Name: shape file
        Format_Version_Number: 1
      Digital_Transfer_Option:
        Online_Option:
          Computer_Contact_Information:
            Network_Address:
              Network_Resource_Name: http://edc2.usgs.gov/fsp/severity/download_data.asp
    Fees: No charge
    Ordering_Instructions: http://edc2.usgs.gov/fsp/severity/help.asp#ordering
    Turnaround: same day
Metadata_Reference_Information:
  Metadata_Date: 20050817
 Metadata_Contact:
    Contact_Information:
      Contact_Organization_Primary:
        Contact_Organization:
          USGS National Center EROS
          Science & Applications Branch
      Contact Position:
        Principal Scientist
        Land Cover Applications
      Contact_Address:
        Address_Type: mailing and physical address
        Address:
          47914 252nd Street
          National Center EROS
        City: Sioux Falls
        State_or_Province: SD
        Postal_Code: 57198-0001
        Country: USA
      Contact_Voice_Telephone: +001 605-594-6151
      Contact_TDD/TTY_Telephone: +001 605-594-6933
      Contact_Facsimile_Telephone: +001 605-594-6589
      Contact_Electronic_Mail_Address: fsedc@usgs.gov
      Hours_of_Service: 0800 - 1600 CT, M-F, -6 h GMT
      Contact_Instructions: http://edc2.usgs.gov/fsp/severity/contact_us.asp
 Metadata_Standard_Name: Content Standard for Digital Geospatial Metadata
 Metadata_Standard_Version: FGDC-STD-001-1998
 Metadata_Access_Constraints: none
 Metadata_Use_Constraints: none
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